

Paper No. 23

DETERMINING SELECTIVE EFFICIENCY
IN CIGARETTE CHARCOAL.

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ABSTRACT

Quantitative measurements have been performed with activated carbon filters to determine adsorptive efficiency and breakthrough characteristics for ciliastatic gases. This technique is based upon a gas chromatograph using a flame ionization detector. The instrument has been modified to allow use of a synthetic filter in place of the separation column. The gases studied were acetaldehyde, acrolein and hydrogen cyanide. Nitrogen was used as the second component. Variables included pore size distribution, activity level, apparent density, raw material and impregnants. The data presented include equilibrium isotherms as well as breakthrough curves, showing the effects of the variables. The direction of further work as indicated by these tests will be discussed.

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